

APPLICATION		REVISION			
NEXTASSEMBLY	USED ON	LTR	DESCRIPTION	DATE	APPROVED
	C65	A	SPECIFICATION RELEASE	1-31-91	jsporter

## 1.0 DESCRIPTION

This specification describes the requirements for RF modulators for receiving audio signals and NTSC or PAL composite video signals, and outputting combined RF broadcast signals.

Devices must be compliant with FCC Part 15 for TV interface devices.

- 313371-01 = NTSC (USA/Canada)
- 313371-02 = PAL (B) (Germany)
- 313371-03 = PAL (I) (United Kingdom)
- 313371-04 = PAL (G) (Australia/Scandinavia)

Commodore P/N	Status	Commodore P/N	Status		
313371-01	Active				
313371-02	Active				
313371-03	Active				
313371-04	Active				
UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES. TOLERANCES: ANGLES +/- 1 DEGREE 2 PLACE DECIMALS +/- 0.02 3 PLACE DECIMALS +/- 0.010		DRAWN A. Young	DATE 1/24/91	<b>Commodore</b> 1200 WILSON DRIVE WEST CHESTER, PA 19380 (215) 431-9100	
		SYSTEM ENGR. A. Young	DATE 1/24/91		
		TEST ENGR.	DATE		
		COMP. ENGR. D. Shannon	DATE 24 JAN 91	TITLE: MODULATOR, RF	
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		PROD. ASSUR.		SIZE A	DRAWING NUMBER 313371
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## 2.0 RF OUTPUT REQUIREMENTS

Operating voltage:	5.0 ± 0.2 V		
Operating current:	20 milliamps max.		
Video carrier frequency:		Ch 3	Ch 4
	(-01)	61.25 MHz	67.25 MHz (± 250 KHz)
	(-02)	55.25 MHz	62.25 MHz (± 250 KHz)
	(-03)	To Be Determined	
	(-04)	To Be Determined	
Video carrier output level:	66 ± 6 dB μ		
Video modulation:	75 ± 10 %		
Audio carrier output level:	53 ± 3 dB μ		
VSWR (output):	3 max.		
In band spurious response:	- 55 dB max.		
Audio carrier frequency:	(-01)	4.5 MHz (± 10 KHz)	
	(-02)	5.5 MHz (± 10 KHz)	
	(-03)	To Be Determined	
	(-04)	To Be Determined	
	Audio carrier frequency deviation:	(-01)	40 ± 10 KHz
(-02)		60 ± 20 KHz	
(-03)		To Be Determined	
(-04)		To Be Determined	
Output spurious response:		- 30 dB max.	

## 3.0 ENVIRONMENTAL RESISTANCE

Operating temperature:	0 to + 55 ° C
Operating humidity:	10 to 90 % RH non-condensing
Storage temperature:	- 20 to + 60 ° C
Storage humidity:	5 to 90 % RH non-condensing

## 4.0 MARKINGS

Devices shall be marked with Commodore bar code per specification 310071 and vendor name and part number.

## 5.0 MINIMUM ACCEPTANCE LEVEL

The minimum acceptance level for any lot will be an AQL of 0.65 as defined by MIL-STD 105 single sampling techniques.

## 6.0 ENGINEERING CHANGES

No changes shall be made to the device specified herein, which affect its form, fit, or function, without prior approval from Commodore Engineering

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## APPROVED VENDOR LIST

THIS SHEET MUST BE REMOVED FROM THIS DOCUMENT  
BEFORE THE DOCUMENT IS SHOWN OR TRANSMITTED TO A VENDOR.

Commodore P/N	Vendor	Vendor P/N
313371-01	MITSUMI	VA3424
313371-02	MITSUMI	VE3424
313371-03	MITSUMI	UB3621
313371-04	MITSUMI	UE3621

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